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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,603	03/29/2004	David H. Shen		9709
7590 04/05/2010 DAVID H. SHEN 21037 Dorsey WAY			EXAMINER	
			MAI, TAN V	
Saratoga, CA 95070			ART UNIT	PAPER NUMBER
			2193	
			MAIL DATE	DELIVERY MODE
			04/05/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/810,603	SHEN, DAVID H.
Office Action Summary	Examiner	Art Unit
	Tan V. Mai	2193
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 17 I This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allowatelessed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-7,9-11 and 15 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-7, 9-11 and 15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the edrawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a lis	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1-7, 9-11 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kasper et al, recorded reference.

As per independent claim 1, Kasper et al discloses, e.g., see Figs. 3 and 9-10, the invention as claimed except the "transimpedance element"; however, the "transimpedance element" is old and well known in the art for converting the current I to voltage V. Therefore, it would have been obvious to a person in the art to couple a "transimpedance element", i.e., a current to voltage converter in the output (303, 403) of Kasper et al to made the claimed invention.

As per claims 2-7, 9-11 and 15, the detail features are obvious to a person having ordinary skill in the art.

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shou et al disclose, e.g., see Fig. 8 and Abstract, a filter has current to voltage converter which is coupled to the out of the filter.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-

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3726. The examiner can normally be reached on Mon-Wed and Fri from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lewis Bullock, Jr., can be reached on (571) 272-3759. The fax phone number for the organization where this application or proceeding is assigned is:

Official (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

/Tan V Mai/ Primary Examiner, Art Unit 2193